

Spec 10598-500
8" Pneumatically Actuated Angle Control Valve

The vendor shall provide 1 each globe style pneumatically actuated control valves, suitable for nitrogen service and meeting the following requirements:

8" ANSI 1500# Class RTJ Flanged Ends.

1. Flow media, temperature, and pressures:
 - A. Gaseous Nitrogen
 - B. -75° F to 140° F
 - C. 2500 PSIG maximum inlet pressure
2. Spring cylinder operated, electro-mechanically positioned from an externally sensed pressure. Mechanical limit switches shall be included. Positioner shall be of the zero-bleed type and accept a 4-20 ma signal. Actuator must be capable of fully opening the valve in 2 seconds under full pressure.
3. Actuation pressure: 75 to 150 psi
4. Maximum inlet pressure: 2500 psi.
5. Maximum outlet pressure 1000psi.
7. Electrical service: 3 phase, 120 VAC, 60 HZ (if necessary)
8. Solenoid shall require no greater than a 30 Amp Service and conform to the NEC 2002.
9. Solenoid shall have dry auxiliary contacts to provide position status to customer's PLC and disconnect.
10. Remote open/closed control capability, via dry electrical contracts from customer's programmable logic controller, must be provided
11. Inlet size: 8-inch ANSI 16.5 1500 lb. RTJ
12. Outlet size 8 inch ANSI 16.5 1500 lb RTJ

Attachment 1

13. Cv: Range 209 to 652
14. Controlled outlet pressure range of 400 psi +/- 10% with inlet pressure range of 2200 psi to 1000 psi with a rate of change of 14 psi / sec
15. Trim : Equal percentage.
16. Valve shall be normally closed
17. Material:
 - Body, dome: 18/8 stainless steel or ASTM A-351 GR CF8M
 - Trim: 17/4 Ph CreS. Or AISI SST 420 or AISI SST 431
 - electro-mechanical components shall be suitable for outside service.
18. Valve leakage shall not exceed FCI 70-2 Class VI.
19. The valve shall be designed, manufactured, and tested in accordance with ASME B31.3.
20. The valve shall consist of but not be limited to body, bonnet , actuator, positioner, transducer, and converter
21. Valtek Mark Eight (Y body) with a Beta Positioner , Leslie Aeroflow angle body with Siemens 760E positioner or approved equal.
22. Guarantee for a period one year from date of shipment to be free from defective materials and workmanship.
23. Manual, parts list, and instructions.
24. Provide electrical schematic(s)/drawing(s).
25. Maintenance recommendations and instructions.
26. All electrical components and wiring must be clearly labeled as identified on electrical schematics(s)/drawing(s).